## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/31028

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : H04B 3/04; H01P 1/22, 5/12; H03H 7/18			
US CL : 333/18, 117, 138, 156			
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 333/18, 28R, 81R, 117, 118, 138, 156			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched East, EPO, JPO, Derwent			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) hybrid, coupler, attenuator, delay, adjustable			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
X	US 5,355,103 A (KOZAK) 11 October 1994 (11.10		1,2,7
 Y			
r			3-6
Α	US 5,019,793 A (MCNAB) 28 May 1991 (28.05.1991), spec all.		all
Α	US 4,153,886 A (MIEDEMA) 8 May 1979 (08.05.	1979), spec all.	ali
Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents:     T		· Promote Promote Processing	rnational filing date or priority
"A" document of particu	defining the general state of the art which is not considered to be lar relevance	date and not in conflict with the applic principle or theory underlying the inve	
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	claimed invention cannot be red to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the	documents, such combination
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report	
22 December 2004 (22.12.2004)		22 FEB 2005	
	iling address of the ISA/US I Stop PCT, Attn: ISA/US	Authorized officer	17/
Commissioner for Patents P.O. Box 1450		Dean O Takaoka J. White	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230  Telephone No. (703) 308-4357			
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